

CLAIMS

1. An acid addition salt of a 3-[4-(8-fluoro-5,11-dihydrobenz[b]oxepino[4,3-b]pyridin-11-ylidene)piperidino]propionic acid alkyl ester.

2. An acid addition salt of 3-[4-(8-fluoro-5,11-dihydrobenz[b]oxepino[4,3-b]pyridin-11-ylidene)piperidino]propionic acid ethyl ester.

3. The acid addition salt according to claim 1 or 2 which is a hydrochloride, hydrobromide, methanesulfonate, or p-toluenesulfonate.

4. A process for producing an acid addition salt of a 3-[4-(8-fluoro-5,11-dihydrobenz[b]oxepino[4,3-b]pyridin-11-ylidene)piperidino]propionic acid alkyl ester which comprises reacting a 3-[4-(8-fluoro-5,11-dihydrobenz[b]oxepino[4,3-b]pyridin-11-ylidene)piperidino]propionic acid alkyl ester with an acid.

5. The process for producing an acid addition salt according to claim 4, in which the reaction is conducted with heating and then the reaction system is cooled.

6. The process for producing an acid addition salt according to claim 5, in which the heating is heating under

reflux.

7. The process for producing an acid addition salt according to any one of claims 4-6, in which the 3-[4-(8-fluoro-5,11-dihydrobenz[b]oxepino[4,3-b]pyridin-11-ylidene)piperidino]propionic acid alkyl ester is prepared by reacting 8-fluoro-11-oxo-5,11-dihydrobenz[b]oxepino[4,3-b]pyridin with a 3-(4-oxo-piperidin-1-yl)-propionic acid alkyl ester in the presence of a low-valent titanium, stirring the reaction mixture by air bubbles in the presence of an organic base, and then separating the product.

8. The process for producing an acid addition salt according to any one of claims 4-7, in which the acid is dissolved in an organic solvent.

9. The process for producing an acid addition salt according to claim 8, in which the organic solvent is one or more selected from the group consisting of lower alcohols and lower fatty acid esters.

10. The process for producing an acid addition salt according to any one of claims 4-9, in which the acid is hydrogen chloride, hydrogen bromide, methansulfonic acid or p-toluenesulfonic acid.

11. A process for producing 3-[4-(8-fluoro-5,11-dihydrobenz[b]oxepino[4,3-b]pyridin-11-ylidene)piperidino]propionic acid or an acid addition salt thereof which comprises hydrolyzing an acid addition salt
5 of a 3-[4-(8-fluoro-5,11-dihydrobenz[b]oxepino[4,3-b]pyridin-11-ylidene)piperidino]propionic acid alkyl ester.

12. The process according to claim 11, in which the acid addition salt of a 3-[4-(8-fluoro-5,11-dihydrobenz[b]oxepino[4,3-b]pyridin-11-ylidene)piperidino]propionic acid alkyl ester is prepared
10 by the process according to any one of claims 4-10.